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3. The method of claim 1 wherein a formaldehyde-fixed sample of the patient's tumor cells has been subjected to an immunohistochemistry assay and found to express HER2 at a 0 or 1+ level.

4. The method of claim 3 wherein the immunohistochem- 5
istry assay is performed prior to detecting her2 gene amplification.

5. The method of claim 1 which further comprises administering a cancer treating dose of a chemotherapeutic drug.

6. The method of claim 5 wherein the chemotherapeutic 10
drug is a taxoid.

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